

Subject index

- Acetic acid**
Activities for phenol formation using Cu catalysts supported on Al₂O₃ in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Acetic anhydride**
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Acetyl chloride**
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Acetyl-zeolite intermediate**
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Acrolein**
Energetics of acrolein hydrogenation on Pt(111) and Ag(111) surfaces: a BOC-MP model study (Khanra, B.C. (208) 167)
The effect of MoV_{0.3}Te_{0.23}P_xO_n catalysts with different phosphorus content for selective oxidation of propane to acrolein (Jiang, H. (208) 213)
- Al₂O₃ supports**
Mesoporous nickelsilicate membranes on porous alumina supports. I. Effect of nature and surface pretreatment of alumina supports on the catalytic membrane formation (Constantin, C. (208) 245)
- AlCl₃ addition**
Effect of a Lewis acid additive on active sites formation in zirconocene catalyst systems: a DFT study (Belelli, P.G. (208) 147)
- σ-Alkyl intermediates**
Hydrogenation versus isomerization in α,β-unsaturated alcohols reactions over Pd/TiO₂ catalysts (Musolino, M.G. (208) 219)
- Amino acid supported Cu catalysts**
Catalytic oxidation by polymer-supported copper(II)–L-valine complexes (Valodkar, V.B. (208) 21)
- Aqueous-biphasic catalysis**
Synthesis, characterization and catalytic hydrogenation in aqueous-biphasic system of a new water soluble complex RuH(CO)(NC-Me)(TPPMS)₃[BF₄] (Baricelli, P.J. (208) 67)
- Arsenide palladium complex**
Synthesis of silica-supported poly-γ-diphenylarsinopropylsiloxane palladium complex and its catalytic behavior for Heck carbonylation of aryl halides (Cai, M. (208) 17)
- Aryl halide**
Synthesis of silica-supported poly-γ-diphenylarsinopropylsiloxane palladium complex and its catalytic behavior for Heck carbonylation of aryl halides (Cai, M. (208) 17)
- Ascorbic acid**
Activities for phenol formation using Cu catalysts supported on Al₂O₃ in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)
- Assembly**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Benzene oxidation**
Mesoporous nickelsilicate membranes on porous alumina supports. II. Catalytic reactor for oxidation of aromatic hydrocarbons (Pârvescu, V. (208) 253)
- Benzene**
Activities for phenol formation using Cu catalysts supported on Al₂O₃ in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)
- Benzimidazole**
Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides (Özdemir, İ. (208) 109)
- Bimetallic**
Thiophene HDS chemistry on monolayer Ni films on W(110) and Ru(0001) (Khan, N.A. (208) 225)
- Binding**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Bioinorganic chemistry**
Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)
- Biomimetic synthesis**
Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)
- Bismuth**
Studies on the catalytic oxidation of epoxides to α-diketones by Bi⁽⁰⁾/O₂ in DMSO (Antoniotti, S. (208) 135)
- BOC-MP model**
Energetics of acrolein hydrogenation on Pt(111) and Ag(111) surfaces: a BOC-MP model study (Khanra, B.C. (208) 167)
- Borate activators**
Tritylpyridinium tetrakis(pentafluorophenyl)borate as an efficient activator for “constrained-geometry” catalysts in ethylene polymerization (Musikabhumma, K. (208) 73)
- Branched polysiloxanes**
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
- ¹³C NMR**
Methylaluminumoxane as a novel catalyst and cocatalyst for ring-opening metathesis polymerisation of norbornene (Amir-Ebrahimi, V. (208) 103)
Remarkable alternating effect in metathesis copolymerization of norbornene and cyclopentene using modified Grubbs ruthenium initiators (Amir-Ebrahimi, V. (208) 115)
- Catalysis**
Tritylpyridinium tetrakis(pentafluorophenyl)borate as an efficient activator for “constrained-geometry” catalysts in ethylene polymerization (Musikabhumma, K. (208) 73)
Dual role study of 12-molybdophosphoric acid on styrene polymerization (Chen, D. (208) 91)
- Catalyst characterization**
Effect of vanadia and tungsten loadings on the physical and chemical characteristics of V₂O₅-WO₃/TiO₂ catalysts (Djerad, S. (208) 257)

- Catalytic activity
Catalytic oxidation by polymer-supported copper(II)-L-valine complexes (Valodkar, V.B. (208) 21)
- Catalytic epoxidation
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Catalytic membrane reactor
Mesoporous nickelsilicate membranes on porous alumina supports. II. Catalytic reactor for oxidation of aromatic hydrocarbons (Pârvulescu, V. (208) 253)
- Catalytic membranes
Mesoporous nickelsilicate membranes on porous alumina supports. I. Effect of nature and surface pretreatment of alumina supports on the catalytic membrane formation (Constantin, C. (208) 245)
- Catalytic properties
Catalytic properties of high surface area titanium nitride materials (Kaskel, S. (208) 291)
- cis/trans* blocky and stereo-blocky polymers
Methylaluminoxane as a novel catalyst and cocatalyst for ring-opening metathesis polymerisation of norbornene (Amir-Ebrahimi, V. (208) 103)
- Chiral alkoxyl ligand
Synthesis and polymerization behavior of various substituted half-sandwich titanium complexes $Cp^*TiCl_2(OR^*)$ as catalysts for syndiotactic polystyrene (Qian, Y. (208) 45)
- Chlorine
Chlorine modification of Mo/silica-titania mixed-oxide catalysts for the oxidative dehydrogenation of ethane (Watson, R.B. (208) 233)
- Clays
Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)
- Cobalt
Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes (Sun, Y.-J. (208) 83)
- Cocatalyst
Effect of "topotactic" reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)
- Copper catalyst supported on Al_2O_3
Activities for phenol formation using Cu catalysts supported on Al_2O_3 in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)
- Crystal phase
Effects of zirconia phase on the synthesis of higher alcohols over zirconia and modified zirconia (He, D. (208) 267)
- Cyclohexane
Selective photo-oxidation of neat cyclohexane in the liquid phase over V_2O_5/Al_2O_3 (Teramura, K. (208) 299)
- Cyclohexene
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- 1,3-Cyclopentadiene
 $AlCl_3$ -catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)
- Dehydration kinetics
Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes (Sun, Y.-J. (208) 83)
- DFT studies
Effect of a Lewis acid additive on active sites formation in zirconocene catalyst systems: a DFT study (Belelli, P.G. (208) 147)
- DFT
Energetics of acrolein hydrogenation on Pt(1 1 1) and Ag(1 1 1) surfaces: a BOC-MP model study (Khanra, B.C. (208) 167)
- Dicyclopentadiene
 $AlCl_3$ -catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)
- Diels–Alder reaction
 $AlCl_3$ -catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)
- Dimerisation
Ring opening, dimerisation and oligomerisation reactions of methyloxirane on solid acid and base catalysts (Fási, A. (208) 307)
- Dimerization
 $AlCl_3$ -catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)
- Double bond isomerization
Hydrogenation versus isomerization in α,β -unsaturated alcohols reactions over Pd/TiO₂ catalysts (Musolino, M.G. (208) 219)
- Dual role
Dual role study of 12-molybdophosphoric acid on styrene polymerization (Chen, D. (208) 91)
- Electrocatalysis
Electrocatalysis of molecular aggregate composed of an osmium complex and a polymer membrane for dioxygen reduction (Abe, T. (208) 11)
- Epoxidation
Kinetic study of epoxidations by urea–hydrogen peroxide catalyzed by methyltrioxorhenium(VII) on niobia (Li, M. (208) 123)
- Epoxides
Studies on the catalytic oxidation of epoxides to α -diketones by $Bi^{(0)}/O_2$ in DMSO (Antoniotti, S. (208) 135)
- Ethane ODH
Chlorine modification of Mo/silica-titania mixed-oxide catalysts for the oxidative dehydrogenation of ethane (Watson, R.B. (208) 233)
- Ethylene polymerization
Tritylpyridinium tetrakis(pentafluorophenyl)borate as an efficient activator for "constrained-geometry" catalysts in ethylene polymerization (Musikabhumma, K. (208) 73)
- Fluorous
Hydroformylation of 1-octene with rhodium catalysts in fluorous systems (Aghmiz, A. (208) 97)
- Friedel–Crafts reaction
MAO-catalyzed Friedel–Crafts reactions of toluene with chloroalkanes and with propylene (Kuwabara, J. (208) 39)
- Friedel-Craft acylation
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Functionalized polysiloxanes
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
- Grubbs initiators
Remarkable alternating effect in metathesis copolymerization of norbornene and cyclopentene using modified Grubbs ruthenium initiators (Amir-Ebrahimi, V. (208) 115)
- H₂O₂
Mesoporous nickelsilicate membranes on porous alumina supports. II. Catalytic reactor for oxidation of aromatic hydrocarbons (Pârvulescu, V. (208) 253)
- Half-sandwich titanocene
Synthesis and polymerization behavior of various substituted half-sandwich titanium complexes $Cp^*TiCl_2(OR^*)$ as catalysts for syndiotactic polystyrene (Qian, Y. (208) 45)
- Heck carbonylation
Synthesis of silica-supported poly- γ -diphenylarsinopropylsiloxane palladium complex and its catalytic behavior for Heck carbonylation of aryl halides (Cai, M. (208) 17)

- Heck**
Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides (Özdemir, İ. (208) 109)
- Hexene-1**
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
- High surface area**
Catalytic properties of high surface area titanium nitride materials (Kaskel, S. (208) 291)
- Higher alcohol synthesis**
Effects of zirconia phase on the synthesis of higher alcohols over zirconia and modified zirconia (He, D. (208) 267)
- HMS**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Homogeneous catalysis**
Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes (Sun, Y.-J. (208) 83)
- Hybrid supports**
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
- Hydroalumination**
Catalytic properties of high surface area titanium nitride materials (Kaskel, S. (208) 291)
- Hydrodesulfurization (HDS)**
Thiophene HDS chemistry on monolayer Ni films on W(1 1 0) and Ru(0 0 1) (Khan, N.A. (208) 225)
- Hydroformylation**
Hydroformylation of 1-octene with rhodium catalysts in fluoruous systems (Aghmiz, A. (208) 97)
- Hydrogenation**
Hydrogenation versus isomerization in α,β -unsaturated alcohols reactions over Pd/TiO₂ catalysts (Musolino, M.G. (208) 219)
Selective dehydrolinalool hydrogenation with poly(ethylene oxide)-*block*-poly-2-vinylpyridine micelles filled with Pd nanoparticles (Sema-gina, N.V. (208) 273)
Synthesis, characterization and catalytic hydrogenation in aqueous-biphasic system of a new water soluble complex RuH(CO)(NC-Me)(TPPMS)₃[BF₄] (Baricelli, P.J. (208) 67)
- Hydrosilylation**
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
Synthesis of the novel layered amorphous and crystalline zirconium phosphate-phosphonates Zr(HPO₄)[O₃PCH₂N(CH₂CH₂)₂O] \cdot *n*H₂O, Zr(HPO₄)[O₃PCH₂N(CH₂CO₂H)₂] \cdot *n*H₂O, zirconium phosphonates Zr[(O₃PCH₂)NCH₂CO₂H] \cdot *n*H₂O and the catalytic activities of their palladium complexes in hydrogenation (Xuebing M. (208) 129)
- Imidazolidine**
Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides (Özdemir, İ. (208) 109)
- Inhibitor**
Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes (Sun, Y.-J. (208) 83)
- Lewis acid**
MAO-catalyzed Friedel-Crafts reactions of toluene with chloroalkanes and with propylene (Kuwabara, J. (208) 39)
- Linalool**
Selective dehydrolinalool hydrogenation with poly(ethylene oxide)-*block*-poly-2-vinylpyridine micelles filled with Pd nanoparticles (Sema-gina, N.V. (208) 273)
- Linear oligomerisation**
Ring opening, dimerisation and oligomerisation reactions of methyloxirane on solid acid and base catalysts (Fási, A. (208) 307)
- Mesoporous Ni-MCM-41 membranes**
Mesoporous nickelsilicate membranes on porous alumina supports. I. Effect of nature and surface pretreatment of alumina supports on the catalytic membrane formation (Constantin, C. (208) 245)
- Mesoporous silicas**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Metallocene catalyst**
Effect of “topotactic” reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)
- Metallocenic system**
Effect of a Lewis acid additive on active sites formation in zirconocene catalyst systems: a DFT study (Belelli, P.G. (208) 147)
- Metathesis copolymerization**
Remarkable alternating effect in metathesis copolymerization of norbornene and cyclopentene using modified Grubbs ruthenium initiators (Amir-Ebrahimi, V. (208) 115)
- Methylaluminoxane as catalyst and cocatalyst**
Methylaluminoxane as a novel catalyst and cocatalyst for ring-opening metathesis polymerisation of norbornene (Amir-Ebrahimi, V. (208) 103)
- Methylalumoxane**
MAO-catalyzed Friedel-Crafts reactions of toluene with chloroalkanes and with propylene (Kuwabara, J. (208) 39)
- Methyloxirane**
Ring opening, dimerisation and oligomerisation reactions of methyloxirane on solid acid and base catalysts (Fási, A. (208) 307)
- Methyltrioxorhenium(VII)**
Kinetic study of epoxidations by urea-hydrogen peroxide catalyzed by methyltrioxorhenium(VII) on niobia (Li, M. (208) 123)
- Mixed metal oxides catalysts**
The effect of MoV_{0.3}Te_{0.23}P_xO_n catalysts with different phosphorus content for selective oxidation of propane to acrolein (Jiang, H. (208) 213)
- MoCl₅ and WCl₆ modifiers**
Remarkable alternating effect in metathesis copolymerization of norbornene and cyclopentene using modified Grubbs ruthenium initiators (Amir-Ebrahimi, V. (208) 115)
- Molecular aggregate**
Electrocatalysis of molecular aggregate composed of an osmium complex and a polymer membrane for dioxygen reduction (Abe, T. (208) 11)
- Molecular catalysis**
Electrocatalysis of molecular aggregate composed of an osmium complex and a polymer membrane for dioxygen reduction (Abe, T. (208) 11)
- Molecular oxygen**
Studies on the catalytic oxidation of epoxides to α -diketones by Bi⁽⁰⁾/O₂ in DMSO (Antoniotti, S. (208) 135)
- Molecular sieves**
Mesoporous nickelsilicate membranes on porous alumina supports. I. Effect of nature and surface pretreatment of alumina supports on the catalytic membrane formation (Constantin, C. (208) 245)
- Molybdenum**
Chlorine modification of Mo/silica-titania mixed-oxide catalysts for the oxidative dehydrogenation of ethane (Watson, R.B. (208) 233)
- 12-Molybdophosphoric acid**
Dual role study of 12-molybdophosphoric acid on styrene polymerization (Chen, D. (208) 91)

Monolayers

Effect of vanadia and tungsten loadings on the physical and chemical characteristics of V_2O_5 - WO_3 / TiO_2 catalysts (Djerad, S. (208) 257)

Nanoparticle

Selective dehydrolinalool hydrogenation with poly(ethylene oxide)-*block*-poly-2-vinylpyridine micelles filled with Pd nanoparticles (Semagina, N.V. (208) 273)

Ni/Ru

Thiophene HDS chemistry on monolayer Ni films on W(1 1 0) and Ru(0 0 0 1) (Khan, N.A. (208) 225)

Ni/W

Thiophene HDS chemistry on monolayer Ni films on W(1 1 0) and Ru(0 0 0 1) (Khan, N.A. (208) 225)

Nickelsilicate membranes

Mesoporous nickelsilicate membranes on porous alumina supports. II. Catalytic reactor for oxidation of aromatic hydrocarbons (Părvulescu, V. (208) 253)

NMR spectroscopy

Hydroformylation of 1-octene with rhodium catalysts in fluoruous systems (Aghmiz, A. (208) 97)

N,N-Dimethylanilinium salt

Effect of “topotactic” reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)

Norbornene and cyclopentene

Remarkable alternating effect in metathesis copolymerization of norbornene and cyclopentene using modified Grubbs ruthenium initiators (Amir-Ebrahimi, V. (208) 115)

Olefin

Synthesis, characterization and catalytic hydrogenation in aqueous-biphasic system of a new water soluble complex $RuH(CO)(NCMe)(TPPMS)_3[BF_4]$ (Baricelli, P.J. (208) 67)

Oxidation

Activities for phenol formation using Cu catalysts supported on Al_2O_3 in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)

Catalytic oxidation by polymer-supported copper(II)-L-valine complexes (Valodkar, V.B. (208) 21)

Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)

Studies on the catalytic oxidation of epoxides to α -diketones by $Bi^{(0)}/O_2$ in DMSO (Antoniotti, S. (208) 135)

Oxygen reduction

Electrocatalysis of molecular aggregate composed of an osmium complex and a polymer membrane for dioxygen reduction (Abe, T. (208) 11)

Oxygen

Activities for phenol formation using Cu catalysts supported on Al_2O_3 in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)

Palladium

Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides (Özdemir, I. (208) 109)

Synthesis of the novel layered amorphous and crystalline zirconium phosphate-phosphonates $Zr(HPO_4)[O_3PCH_2N(CH_2CH_2)_2O] \cdot nH_2O$, $Zr(HPO_4)[O_3PCH_2N(CH_2CO_2H)_2] \cdot nH_2O$, zirconium phosphonates $Zr[(O_3PCH_2)NCH_2CO_2H] \cdot nH_2O$ and the catalytic activities of their palladium complexes in hydrogenation (Xuebing M. (208) 129)

Prmeation

Mesoporous nickelsilicate membranes on porous alumina supports. I. Effect of nature and surface pretreatment of alumina supports on the catalytic membrane formation (Constantin, C. (208) 129)

Phenol

Activities for phenol formation using Cu catalysts supported on Al_2O_3 in the liquid-phase oxidation of benzene in aqueous solvent with high acetic acid concentration (Kanzaki, H. (208) 203)

Photocatalyst

Selective photo-oxidation of neat cyclohexane in the liquid phase over V_2O_5/Al_2O_3 (Teramura, K. (208) 299)

Platinum

Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)

Poly(ethylene oxide)-*block*-poly-2-vinylpyridine

Selective dehydrolinalool hydrogenation with poly(ethylene oxide)-*block*-poly-2-vinylpyridine micelles filled with Pd nanoparticles (Semagina, N.V. (208) 273)

Polyethylene

Tritylpyridinium tetrakis(pentafluorophenyl)borate as an efficient activator for “constrained-geometry” catalysts in ethylene polymerization (Musikabhumma, K. (208) 73)

Polyethylene

Zirconium alkoxide complexes as catalysts for ethylene polymerization (Carone, C. (208) 285)

Polymer-coated electrode

Electrocatalysis of molecular aggregate composed of an osmium complex and a polymer membrane for dioxygen reduction (Abe, T. (208) 11)

Polymerization

Dual role study of 12-molybdophosphoric acid on styrene polymerization (Chen, D. (208) 91)

Effect of “topotactic” reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)

Zirconium alkoxide complexes as catalysts for ethylene polymerization (Carone, C. (208) 285)

Porphyrins

Metalloporphyrins immobilized on motmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)

Propanal

Energetics of acrolein hydrogenation on Pt(1 1 1) and Ag(1 1 1) surfaces: a BOC-MP model study (Khanra, B.C. (208) 167)

Propane

The effect of $MoV_{0.3}Te_{0.23}P_xO_n$ catalysts with different phosphorus content for selective oxidation of propane to acrolein (Jiang, H. (208) 213)

Propylene

MAO-catalyzed Friedel-Crafts reactions of toluene with chloroalkanes and with propylene (Kuwabara, J. (208) 39)

Raman spectroscopy

Chlorine modification of Mo/silica-titania mixed-oxide catalysts for the oxidative dehydrogenation of ethane (Watson, R.B. (208) 233)

Rates

$AlCl_3$ -catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)

Reusable catalysts

Catalytic oxidation by polymer-supported copper(II)-L-valine complexes (Valodkar, V.B. (208) 21)

Rhodium

Hydroformylation of 1-octene with rhodium catalysts in fluoruous systems (Aghmiz, A. (208) 97)

Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)

Ring opening

Ring opening, dimerisation and oligomerisation reactions of methyloxirane on solid acid and base catalysts (Fási, A. (208) 307)

- ROMP of norbornene**
Methylaluminoxane as a novel catalyst and cocatalyst for ring-opening metathesis polymerisation of norbornene (Amir-Ebrahimi, V. (208) 103)
- Ruthenium**
Synthesis, characterization and catalytic hydrogenation in aqueous-biphasic system of a new water soluble complex RuH(CO)(NC-Me)(TPPMS)₃[BF₄] (Baricelli, P.J. (208) 67)
- SCR reaction**
Effect of vanadia and tungsten loadings on the physical and chemical characteristics of V₂O₅-WO₃/TiO₂ catalysts (Djerad, S. (208) 257)
- Selective oxidation**
Selective photo-oxidation of neat cyclohexane in the liquid phase over V₂O₅/Al₂O₃ (Teramura, K. (208) 299)
- Selective oxidation**
The effect of MoV_{0.3}Te_{0.23}P_xO_n catalysts with different phosphorus content for selective oxidation of propane to acrolein (Jiang, H. (208) 213)
- Silica-titania**
Chlorine modification of Mo/silica-titania mixed-oxide catalysts for the oxidative dehydrogenation of ethane (Watson, R.B. (208) 233)
- Solid acids and bases**
Ring opening, dimerisation and oligomerisation reactions of methyloxirane on solid acid and base catalysts (Fási, A. (208) 307)
- Stopped-flow techniques**
Experimental and theoretical studies of the dehydration kinetics of two inhibitor-containing half-sandwich cobalt(II) complexes (Sun, Y.-J. (208) 83)
- Styrene oxidation**
Mesoporous nickelsilicate membranes on porous alumina supports. II. Catalytic reactor for oxidation of aromatic hydrocarbons (Părvulescu, V. (208) 253)
- Styrene**
Dual role study of 12-molybdophosphoric acid on styrene polymerization (Chen, D. (208) 91)
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Supported catalysis**
Metalloporphyrins immobilized on montmorillonite as biomimetic catalysts in the oxidation of lignin model compounds (Crestini, C. (208) 195)
Synthesis and catalytic activity of the transition metal complex catalysts supported on the branched functionalized polysiloxanes grafted on silica (Michalska, Z.M. (208) 187)
Tritylpyridinium tetrakis(pentafluorophenyl)borate as an efficient activator for “constrained-geometry” catalysts in ethylene polymerization (Musikabhumma, K. (208) 73)
Zirconium alkoxide complexes as catalysts for ethylene polymerization (Carone, C. (208) 285)
- Supported palladium catalyst**
Synthesis of silica-supported poly-γ-diphenylarsinopropylsiloxane palladium complex and its catalytic behavior for Heck carbonylation of aryl halides (Cai, M. (208) 17)
- Suzuki**
Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides (Özdemir, İ. (208) 109)
- Syndiotactic polystyrene**
Synthesis and polymerization behavior of various substituted half-sandwich titanium complexes Cp^{*}TiCl₂(OR^{*}) as catalysts for syndiotactic polystyrene (Qian, Y. (208) 45)
- Synthesis gas**
Effects of zirconia phase on the synthesis of higher alcohols over zirconia and modified zirconia (He, D. (208) 267)
- Temperature effect**
AlCl₃-catalysed dimerization of 1,3-cyclopentadiene in the chloroaluminate room temperature ionic liquid (Kumar, A. (208) 33)
- Thiophene**
Thiophene HDS chemistry on monolayer Ni films on W(1 1 0) and Ru(0 0 0 1) (Khan, N.A. (208) 225)
- Ti complexes**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- TiO₂ supported palladium catalyst**
Hydrogenation versus isomerization in α,β-unsaturated alcohols reactions over Pd/TiO₂ catalysts (Musolino, M.G. (208) 219)
- Titania**
Effect of vanadia and tungsten loadings on the physical and chemical characteristics of V₂O₅-WO₃/TiO₂ catalysts (Djerad, S. (208) 257)
- Titanium nitride**
Catalytic properties of high surface area titanium nitride materials (Kaskel, S. (208) 291)
- Topotactic reduction**
Effect of “topotactic” reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)
- Tungsten disulfide**
Effect of “topotactic” reduction product of tungsten disulfide on catalytic activity of metallocene catalyst for olefin polymerization (Yamada, S. (208) 55)
- α,β-unsaturated aldehydes**
Energetics of acrolein hydrogenation on Pt(1 1 1) and Ag(1 1 1) surfaces: a BOC-MP model study (Khanra, B.C. (208) 167)
- α,β-Unsaturated alcohols**
Hydrogenation versus isomerization in α,β-unsaturated alcohols reactions over Pd/TiO₂ catalysts (Musolino, M.G. (208) 219)
- Urea-hydrogen peroxide**
Kinetic study of epoxidations by urea-hydrogen peroxide catalyzed by methyltrioxorhenium(VII) on niobia (Li, M. (208) 123)
- V₂O₅/Al₂O₃**
Selective photo-oxidation of neat cyclohexane in the liquid phase over V₂O₅/Al₂O₃ (Teramura, K. (208) 299)
- Vanadium oxide**
Effect of vanadia and tungsten loadings on the physical and chemical characteristics of V₂O₅-WO₃/TiO₂ catalysts (Djerad, S. (208) 257)
- XRD\FT-IR\UV-Vis**
Ti complexes assembled HMS as effective catalysts for epoxidation of alkene (Fu, Z. (208) 159)
- Zeolite**
Characterization of acylating intermediates formed on H-ZSM-5 (Kresnawahjuesa, O. (208) 175)
- Zirconia**
Effects of zirconia phase on the synthesis of higher alcohols over zirconia and modified zirconia (He, D. (208) 267)
- Zirconium alkoxide**
Zirconium alkoxide complexes as catalysts for ethylene polymerization (Carone, C. (208) 285)
- Zirconium [N-(phosphonomethyl)morpholine-phosphate]**
Synthesis of the novel layered amorphous and crystalline zirconium phosphate-phosphonates Zr(HPO₄)[O₃PCH₂N(CH₂CH₂)₂O]·nH₂O, Zr(HPO₄)[O₃PCH₂N(CH₂CO₂H)₂]·nH₂O, zirconium phosphonates Zr[(O₃PCH₂)NCH₂CO₂H]·nH₂O and the catalytic activities of their palladium complexes in hydrogenation (Xuebing M. (208) 129)
- Zirconium [N-(phosphonomethyl)iminodiacetic acid-phosphate]**
Synthesis of the novel layered amorphous and crystalline zirconium phosphate-phosphonates Zr(HPO₄)[O₃PCH₂N(CH₂CH₂)₂O]·nH₂O, Zr(HPO₄)[O₃PCH₂N(CH₂CO₂H)₂]·nH₂O, zirconium phosphonates Zr[(O₃PCH₂)NCH₂CO₂H]·nH₂O and the catalytic activities of their palladium complexes in hydrogenation (Xuebing M. (208) 129)

Zirconium [*N,N*-di(phosphonomethyl) acetic acid]

Synthesis of the novel layered amorphous and crystalline zirconium phosphate–phosphonates $\text{Zr}(\text{HPO}_4)[\text{O}_3\text{PCH}_2\text{N}(\text{CH}_2\text{CH}_2)_2\text{O}] \cdot n\text{H}_2\text{O}$,

$\text{Zr}(\text{HPO}_4)[\text{O}_3\text{PCH}_2\text{N}(\text{CH}_2\text{CO}_2\text{H})_2] \cdot n\text{H}_2\text{O}$, zirconium phosphonates $\text{Zr}[(\text{O}_3\text{PCH}_2)\text{NCH}_2\text{CO}_2\text{H}] \cdot n\text{H}_2\text{O}$ and the catalytic activities of their palladium complexes in hydrogenation (Xuebing M. (208) 129)